

Patent Claims:

1. A method of receiving a bullet, comprising:
providing a plate structure (62) having an airtight enclosure
(64) enclosing high performance fiber layers (66), a hard
5 layer (68), a textile layer (70) having openings defined
therein and a semi-solid layer (72);
a bullet penetrating through the airtight enclosure (64);
increasing a pressure and expanding a volume inside the
airtight enclosure;
10 the increased pressure and volume separating the layers (66)
from the hard layer (68) and the textile layer (70) from the
hard layer (68);
the hard layer (68) deforming the bullet;
the textile layer (70) attaching to the bullet to follow the
15 bullet; and
the semi-solid layer (72) sticking to the bullet.
2. The method according to claim 1 wherein the method further
comprises inserting the plate structure (62) into a pocket
20 (50) of a vest (10).
3. The method according to claim 1 wherein the method further
comprises attaching a side plate (38, 40) to a lower edge (42)
of the vest (10).
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4. The method according to claim 1 wherein the method further
comprises the increased pressure expanding the enclosure (64)
to create room between the layers (66, 68, 70).
- 30 5. The method according to claim 1 wherein the method further
comprises providing the plate structure (62) with a polymeric
layer (80) having a plurality of air-bubbles (82).

6. The method according to claim 5 wherein the method further comprises the polymeric layer (80) transversely spreads out penetration energy of the bullet.

5 7. The method of claim 1 wherein the method further comprises placing a trauma plate (84) behind the plate structure (62).

8. The method of claim 1 wherein the method further comprises removably attaching a gas mask bag (54) on a rear section (44)
10 of the vest (10).

9. The method of claim 1 wherein the method further comprises the textile layer (70) being a woven fiberglass, the woven fiberglass attaching to the bullet and the semi-solid material
15 (72).

10. The method according to claim 1 wherein the method further comprises providing a second textile layer (74) and a second semi-solid layer (76), the layer (74) and the layer
20 (76) sticking to the bullet.